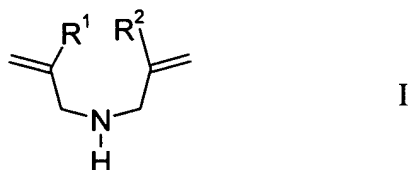


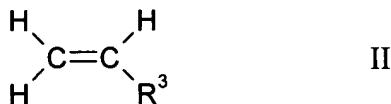
AMENDMENTS TO THE CLAIMS

1. (Currently amended) A process for the preparation of polymers, which comprises reacting N,N-diallylamine derivatives of the general formula I



where R^1 , R^2 , independently of one another, are hydrogen or C_1 - C_4 -alkyl,

~~in the sense of a Michael addition~~ with compounds of the general formula II



where R^3 is $COOR^4$, CN , CHO , SO_3H , $PO(OH)_2$ or $CONR^5R^6$,
 R^4 , R^5 , R^6 , independently of one another, are hydrogen or C_1 to C_{18} -alkyl to form a Michael product, and ~~then free-radically~~ polymerizing the Michael adducts, ~~if appropriate product~~ in the presence of one or more free-radically copolymerizable monomers.

2. (original) A process according to claim 1, where R^1 and R^2 are hydrogen.

3. (currently amended) A process according to claim 1 ~~or 2~~, where R^3 is $COOH$.

4. (currently amended) A process according to ~~claims 1 to 3~~, claim 1 wherein the polymerization is carried out in the presence of one or more monomers ~~chosen~~ selected from the group consisting of acrylic acid, methacrylic acid, maleic acid, fumaric acid, crotonic acid, itaconic acid, maleic anhydride and maleic half-esters, methyl acrylate, methyl methacrylate, ethyl acrylate, ethyl methacrylate, n-butyl acrylate, n-butyl methacrylate, t-butyl acrylate, t-butyl methacrylate, isobutyl acrylate, isobutyl methacrylate, 2-ethylhexyl acrylate, stearyl acrylate, stearyl methacrylate, acrylamide, N-t-butylacrylamide, N-octylacrylamide, 2-hydroxyethyl acrylate, hydroxypropyl acrylates, 2-hydroxyethyl methacrylate, hydroxypropyl methacrylates,

alkylene glycol (meth)acrylates, styrene, unsaturated sulfonic acids, such as, for example, acrylamidopropanesulfonic acid, vinylpyrrolidone, vinylcaprolactam, vinyl ethers (e.g.: methyl, ethyl, butyl or dodecyl vinyl ethers), vinylformamide, vinylmethylacetamide, vinylamine, 1-vinylimidazole, 1-vinyl-2-methylimidazole, N,N-dimethylaminomethyl methacrylate and N-[3-(dimethylamino)propyl]methacrylamide, 3-methyl-1-vinylimidazolium chloride, 3-methyl-1-vinylimidazolium methylsulfate, N,N-dimethylaminoethyl methacrylate, N-[3-(dimethylamino)propyl]methacrylamide quaternized with methyl chloride, methyl sulfate ~~or~~ and diethyl sulfate.

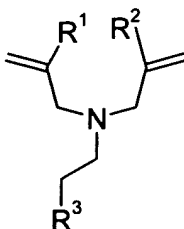
5. (currently amended) A process according to ~~claims 1 to 4~~, claim 1 wherein the polymerization ~~takes place~~ is conducted in the presence of an acid ~~chosen~~ selected from the group consisting of hydrochloric acid, sulfuric acid, phosphoric acid and nitric acid.

6. (currently amended) A process according to ~~claims 1 to 5~~ claim 1, wherein the reaction temperature is between 30 and 90°C.

7. (currently amended) A process according to ~~claims 1 to 6~~ claim 1, wherein the reaction temperature is between 40 and 70°C.

8. (currently amended) Polymers obtainable by a process according to ~~claims 1 to 7~~ claim 1.

9. (original) N,N-Diallylamine derivatives of the general formula III



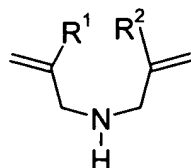
III

in which R^1 , R^2 , independently of one another, are hydrogen or C_1 to C_4 -alkyl,
 R^3 is $COOR^4$, CN, CHO, SO_3H , $PO(OH)_2$ or $CONR^5R^6$, and
 R^4 , R^5 , R^6 , independently of one another, are hydrogen or C_1 to C_{18} -alkyl,
where a quaternization of the nitrogen as a result of protonation may also be present.

10. (original) N,N-Diallylamine derivatives according to claim 9, where R^1 and R^2 are hydrogen.

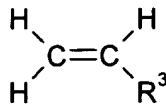
11. (currently amended) N, N-Diallylamine derivatives according to ~~claims 9 and 10~~ claim 9, where R^3 is COOH.

12. (currently amended) A process for the preparation of substituted N,N diallylamine derivatives of the general formula III according to ~~claims 9 to 11~~ claim 9, which comprises ~~carrying out a Michael addition between~~ reacting N,N-diallylamine derivatives of the general formula I



I

where R^1 , R^2 , independently of one another, are hydrogen or C_1 - C_4 -alkyl and compounds of the general formula II



II

where R^3 is $COOR^4$, CN, CHO, SO_3H , $PO(OH)_2$ or $CONR^5R^6$ and R^4 , R^5 , R^6 , independently of one another, are hydrogen or C_1 to C_{18} -alkyl.

13. (currently amended) A process according to claim 12, wherein ~~no solvent is used~~ the reaction of the derivatives of general formula I and the compounds of general formula II is conducted in the absence of a reaction solvent.

14. (original) Use of the polymers according to claim 8 for the preparation of cosmetic and pharmaceutical compositions.
15. (original) Use of the polymers according to claim 8 for the preparation of fixatives and flocculants.
16. (original) Use of the polymers according to claim 8 for the preparation of detergents and cleaners.
17. (original) Use of the polymers according to claim 8 in polymer dispersions.
18. (new) A process according to claim 2, where R^3 is COOH.
19. (new) N, N-Diallylamine derivatives according to claim 10, where R^3 is COOH.
20. (new) A process according to claim 11, wherein the reaction of the derivatives of general formula I and the compounds of general formula II is conducted in the absence of a reaction solvent.